

Curriculum Vitae

Saida Sharifova, PhD in Biology, Associate Professor

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EDUCATION

- 01/2006-01/2010 **PhD in Biology**, Genetic Resources Institute, Azerbaijan National Academy of Sciences, Baku, Azerbaijan
Specialization: Genetics
- 09/2003-06/2005 **Master's degree in Biology**, Baku State University, Baku, Azerbaijan
Specialization: Plant Physiology
- 09/1999-06/2003 **Bachelor's degree in Biology**, Baku State University, Baku, Azerbaijan

WORK EXPERIENCE

- 10/2020-present **Dean**, Graduate School of Science, Arts and Technology, Khazar University, Baku, Azerbaijan
- 11/2019-present **Associate Professor in Biology**, Khazar University, Baku, Azerbaijan
- 11/2019-09/2020 **Chair**, Division of Graduate Studies and Research, Khazar University, Baku, Azerbaijan
- 11/2016-11/2019 **Scientific Secretary & Leading researcher**, Genetic Resources Institute, Azerbaijan National Academy of Sciences (ANAS), Baku, Azerbaijan
- 05/2016-10/2016 **Chair**, Department of Education, Genetic Resources Institute, ANAS, Baku, Azerbaijan
- 01/2015-04/2016 **Senior researcher**, Department of Biotechnology, Genetic Resources Institute, ANAS, Baku, Azerbaijan
- 01/2010-12/2014 **Researcher**, Department of Horticultural Crops, Genetic Resources Institute, ANAS, Baku, Azerbaijan

TEACHING EXPERIENCE

- 02/2020- present Department of Life Sciences, Khazar University
Cell Biology, Fundamentals of Bioinformatics
- 09/2016-06/2018 Department of Education, Genetic Resources Institute, ANAS
Methods in Molecular Biology, Population genetics

FELLOWSHIPS & SCHOLARSHIPS

- 10/2023-03/2024 **Fulbright Visiting Scholar**, Fulbright Visiting Scholar Program, U.S. Department of State's Bureau of Educational and Cultural Affairs (ECA)
Department of Biology, Colorado State University, Fort Collins, USA
- 06/2023-09/2023 **DAAD Visiting Scholar**, Bilateral Exchanges of Academics / The German Academic Exchange Service (DAAD)
Department of Computational Biology, Bielefeld University, Germany
- 12/2018-02/2019 **DAAD Visiting Scholar**, Research Stays for University Academics and Scientists / The German Academic Exchange Service (DAAD)
Research Department Plant Sciences, Technical University of Munich, Germany
- 08/2017-11/2017 **Fulbright Visiting Scholar**, Fulbright Visiting Scholar Program, U.S. Department of State's Bureau of Educational and Cultural Affairs (ECA)
Plant Biology Department, University of California, Davis, USA
- 11/2013-08/2014 **Postdoctoral researcher**, Erasmus Mundus Program, The European Union
Department of Plant Genetics, Breeding and Biotechnology, Warsaw University of Life Sciences, Warsaw, Poland
- 10/2011-07/2012 **Visiting researcher**, Erasmus Mundus Action 2 Program, The European Union
Laboratory of Plant Molecular Biology and Plant Propagation, Alexander Technological Educational Institution of Thessaloniki, Greece

PUBLICATIONS

- Wei, Kai*, Saida Sharifova*, Xiaoyun Zhao, Neelima Sinha, Hokuto Nakayama, Aurélien Tellier, and Gustavo A. Silva-Arias. "Evolution of two gene networks underlying adaptation to drought stress in the wild tomato *Solanum chilense*." bioRxiv (2023): 2023-01.
- S.P. Mehdiyeva, M.E. Eldarov, S.S. Sharifova, M.A. Abbasov, A.J. Aliyeva, Z.I. Akparov. "Diversity of the *Triticeae* genetic resources in Garabagh region of Azerbaijan." Journal of Life Sciences and Biomedicine/ Division of Biological and Medical Sciences of Azerbaijan National Academy of Sciences, 76(2), (2021): <http://dx.doi.org/10.29228/jlsb.34>
- Guliyev Niyazi, Saida Sharifova, Javid Ojaghi, Mehraj Abbasov, and Zeynal Akparov. "Genetic diversity among melon (*Cucumis melo* L.) accessions revealed by morphological traits and ISSR markers." Turkish Journal of Agriculture and Forestry 42, no. 6 (2018): 393-401. [Web of Science, Impact factor in 1.76 in 2018]
- Targońska-Karasek, Małgorzata, Hanna Bolibok-Brağoszewska, Tymoteusz Oleniecki, Saida Sharifova, Marta Kopania, and Monika Rakoczy-Trojanowska. "Verification of taxonomic relationships within the genus *Secale* (Poaceae: Pooideae: Triticeae) based on multiple molecular methods." Phytotaxa 383, no. 2 (2018): 128-146. [Web of Science, Impact factor in 1.173 in 2018]
- S.V. Hajiyeva, Z.I. Akparov, N.A. Hasanov, Z.P. Mustafayeva, E.S. Hajiyev, A.T. Mammadov, V.I. Izzatullayeva et al. "ISSR analysis of variability of cultivated form and varieties of pomegranate (*Punica granatum* L.) from Azerbaijan." Russian journal of genetics 54 (2018): 188-197. [Web of Science, SSCI Impact factor 0.533 in 2018]
- Sharifova, Saida S., Sabina P. Mehdiyeva, and Mehraj A. Abbasov. "Analysis of genetic diversity among different tomato genotypes using ISSR DNA marker." Genetika (Serbia), Vol.49, №1, (2017): p.31-42. [Web of Science, Impact factor 0.469 in 2017]

- Saida Sharifova, Gurban Gurbanov, Vafa Rustamova, Zeynal Akparov. "Molecular screening of tomato (*S. lycopersicum* L.) genotypes for resistance alleles against biotic stresses." The Proceeding of the Genetic Resources Institute, ANAS of Azerbaijan, (6) №1-2, (2017): p.76- 84.
- Gawroński, Piotr, Magdalena Pawełkiewicz, Katarzyna Tofil, Grzegorz Uszyński, Saida Sharifova, Shivaksh Ahluwalia, Mirosław Tyrka, Maria Wędzony, Andrzej Kilian, and Hanna Bolibok-Bragoszewska. "DArT markers effectively target gene space in the rye genome." *Frontiers in Plant Science* 7 (2016): 1600. [Web of Science, Impact factor 4.335 in 2016]
- Sharifova, S. S., R. T. Aliyev, and I. A. Shahmuradov. "In silico analysis on frequency and types of simple sequence repeats in expressed sequence tags (ESTs) of different tomato species." *The Reports of National Academy of Sciences of Azerbaijan*, Vol 1, (2016): p 66-71.
- Mursalova, J. M., Z. I. Akparov, S. S. Sharifova, J. M. Ojaghi, M. E. Eldarov, A. I. Morgounov, and M. R. Trojanowska. "Investigation of genetic diversity of wheat genotypes (*Triticum aestivum* L.) using microsatellite markers." *The Reports of National Academy of Sciences of Azerbaijan*, Vol 2, (2015): p. 87-92.
- Sharifova, Saida, Sabina Mehdiyeva, Konstantinos Theodorikas, and Konstantinos Roubos. "Assessment of genetic diversity in cultivated tomato (*Solanum lycopersicum* L.) genotypes using RAPD primers." *Journal of Horticultural Research*, vol. 21(1), (2013): 83-89. [Web of Science]
- Sharifova, Saida, Sabir Hasanov, Alisoltan Babayev, and Niyazi Guliyev. "Some characteristics of the newly obtained constant sweet pepper (*Capsicum annuum* L.) hybrids." *Field and Vegetable Crops Research*. 49(1), (2012): p.122-125.

RESEARCHER IDs

- Web of Science Researcher ID: Y-3332-2019
- <https://orcid.org/0000-0002-6725-6364>

PROJECTS

- **Principal investigator**, Drought stress modulated alternative splicing landscapes in wild tomato species, 2022-present
- **National consultant**, Plant Genetic Resources Sustainable Use under UTF/AZE/016/AZE - Catalyzing the Efficiency and Sustainability of Azerbaijan's Hazelnut Sector – HAZER. 06/2021-10/2021
- **Project director**, RNA-Seq analysis of drought responsive transcriptome of *S. chilense*, 2018-2020. The project was funded by the Fulbright Visiting Scholar Program of the U.S. Department of State and by German Academic Exchange Service (DAAD) within the framework of Research Stays for University Academics and Scientists
- **Research associate**, Regulating WRKY networks to increase crop yield in changing climates. The project was funded by the Azerbaijan National Academy of Sciences and Science and Technology Center in Ukraine. 2017-2018
- **Research associate**, Whole genome and transcriptome sequencing of Azerbaijani pomegranate (*P. granatum*) variety "Guloysha". The project was funded by the Azerbaijan National Academy of Sciences. 2016-2018
- **Research associate**, Strengthen of the material-technical base of fundamental research for the efficient use of the land and the plant genetic diversity. The project was funded by Science Development Foundation of Azerbaijan, 2012-2015

WORKSHOPS & TRAININGS

- Analysis of Genotyping by Sequencing Data. Workshop organized by the Statistical, Economic and Social research and Training Centre for Islamic Countries (SESRIC). Uludag University, Bursa, Turkey, 05-07 March, 2018
- Collecting, Handling and Long-Term Conservation of Seeds of Wild Species Related to Crops. Workshop organized by Royal Botanic Gardens, Kew, England and Genetic Resources Institute of Azerbaijan National Academy of Sciences. Genetic Resources Institute, Baku, Azerbaijan, 23-27 May, 2016
- Ion Torrent™ Next-Generation Sequencing Technology, Genotyping by Sequencing for plant genetic diversity analysis. Training course, Kansas State University, USA, December, 2014
- Application of modern conventional tools in Plant Genetic Resources characterization, pre-breeding, and breeding. Training course organized by The International Center for Agricultural Research in Dry Areas (ICARDA), International Maize and Wheat Improvement Center (CYMMIT) and Food and Agriculture Organization (FAO). Genetic Resources Institute, Baku, Azerbaijan, 17-21 June, 2011
- DNA marker application for Crop Improvement and Biotechnology tools in PGR Utilization. Training course organized by The International Center for Agricultural Research in Dry Areas (ICARDA), International Maize and Wheat Improvement Center (CYMMIT) and Food and Agriculture Organization (FAO). Genetic Resources Institute, Baku, Azerbaijan, 25-30 April, 2011
- Scientific Overview of Biotechnology as Applied to Food and Feed. Training course organized by The United State Department of Agriculture. Genetic Resources Institute, Baku, Azerbaijan, 2009
- Bioinformatics/Current Progress and Practical Applications. Training course organized by the COMSTECH and COMSATS Institute of Information Technology. Baku, Azerbaijan, 23-28 June, 2008
- Molecular marker technology in plant biodiversity analysis. Training course organized by The International Center for Agricultural Research in Dry Areas (ICARDA). ICARDA, Aleppo, Syria, November 15-December 15, 2006

LANGUAGES

Azerbaijani (native), English and Turkish (fluent), Deutsch and Russian (intermediate)

TECHNICAL SKILLS

Techniques of molecular biology & genetics, DNA marker technology for biodiversity research, Next-Generation Sequencing technologies, bioinformatics for omics data, R programming for biologist, Galaxy & etc.

OTHER EXPERIENCES & SKILLS

Excellent skills in leadership, teamwork & collaboration, documentation & presentation, responsible, self-starter, persuasive, quick-learner